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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/378,226	08/19/1999	MARK D. RIGGINS	40827.00011	8867
7590 05/10/2005			EXAMINER	
Jinntung Su			MOORTHY, ARAVIND K	
MANATT, PHELPS & PHILLIPS LLP 1001 Page Mill Road			ART UNIT	PAPER NUMBER
Building 2			2131	
Palo Alto, CA 94303			DATE MAILED: 05/10/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summany	09/378,226	RIGGINS, MARK D.			
Office Action Summary	Examiner	Art Unit			
	Aravind K. Moorthy	2131			
The MAILING DATE of this communication apperiod for Reply	ppears on the cover sheet wi	th the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR of after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a recommendation of the period for reply is specified above, the maximum statutory perions failure to reply within the set or extended period for reply will, by status Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I.  1.136(a). In no event, however, may a reply within the statutory minimum of thirt d will apply and will expire SIX (6) MON ate, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 01	April 2005.				
. —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4)  Claim(s) <u>1-30</u> is/are pending in the application 4a) Of the above claim(s) is/are withdrest 5)  Claim(s) is/are allowed.  6)  Claim(s) <u>1-30</u> is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and	awn from consideration.				
Application Papers					
9) The specification is objected to by the Examination 10) The drawing(s) filed on <u>05 December 2003</u> is Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the I	dare: a)⊠ accepted or b) le drawing(s) be held in abeyan ection is required if the drawing	ce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in A iority documents have been au (PCT Rule 17.2(a)).	pplication No received in this National Stage			
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	Paper No(s	Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 			

#### **DETAILED ACTION**

- 1. This is in response to the amendment filed on 1 April 2005.
- 2. Claims 1-30 are pending in the application.
- 3. Claims 1-30 have been rejected.

#### Continued Examination Under 37 CFR 1.114

4. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 1 April 2005 has been entered.

#### Response to Arguments

5. Applicant's arguments with respect to claims 1-30 have been considered but are moot in view of the new ground(s) of rejection.

#### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claims 19 and 20 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01.

The omitted steps are: steps for "deriving a key". The applicant recites "sending a decryption downloadable for deriving a key from a password and a hint". However, there are no

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steps recited in how the key is actually derived. Additionally, there is no end result to both claims.

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## Claim Objections

7. Claim 30 is objected to because of the following informalities: misspelling. The word "the" has been misspelled as "thee". Appropriate correction is required.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

8. Claims 1, 2, 4-6 and 8-19 are rejected under 35 U.S.C. 102(e) as being anticipated by Grawrock U.S. Patent No. 6,360,322 B1.

As to claims 1 and 8, Grawrock discloses a method, comprising:

obtaining a hint [column 5, lines 1-42];

obtaining a password [column 5, lines 1-42];

sending the hint to a client [column 5, lines 1-42];

performing a hashing algorithm on the hint and the password to generate a key [column 6 line 52 to column 7 line 27];

encrypting data using the key [column 6 line 52 to column 7 line 27]; sending the encrypted data to a server for storage [column 6 line 52 to column 7 line 27]; and

As to claim 2, Grawrock discloses that the step of performing a hashing algorithm includes hashing the password [column 6 line 52 to column 7 line 27].

As to claim 4, Grawrock discloses a system, comprising:

a user interface for obtaining a password [column 5, lines 1-42];

a key generator coupled to the user interface for performing a hashing algorithm on a hint and the password to generate a key [column 6 line 52 to column 7 line 27];

an encryption engine coupled to the key generator for encrypting data using the key [column 6 line 52 to column 7 line 27];

a communications module coupled to the engine for sending the encrypted data and the hint to a server for storage [column 6 line 52 to column 7 line 27].

As to claim 5, Grawrock discloses a hint generator for generating the hint [column 5, lines 1-42].

As to claim 6, Grawrock discloses that the key generator hashes the password [column 6 line 52 to column 7 line 27].

As to claim 9, Grawrock discloses that the system includes code stored on a computer-readable storage medium [column 2, lines 47-53].

As to claim 10, Grawrock discloses that the system includes code embodied in a carrier wave [column 2, lines 47-53].

As to claim 11, Grawrock suggests receiving a request to store encrypted data from a client [column 2, lines 54-62]. Grawrock discloses sending an encryption downloadable for deriving a key to encrypt data to the client [column 3, lines 5-13]. Grawrock teaches receiving encrypted data that was encrypted by the encryption downloadable from the client [column 3, lines 14-22]. Grawrock discloses obtaining a hint corresponding to the encrypted data and needed for regenerating the key and storing the hint and the encrypted data [column 6 line 52 to column 7 line 27].

As to claim 12, Grawrock discloses an encryption downloadable for deriving an encryption key from a password and a hint [column 5, lines 1-42]. Grawrock suggests a web server for interfacing with a client for sending the encryption downloadable to the client [column 3, lines 5-13]. Grawrock discloses receiving encrypted data that was encrypted by the encryption downloadable from the client [column 3, lines 5-13]. Grawrock suggests memory coupled to the web server for storing a hint corresponding to the encrypted data and needed to regenerate the key from the client and the encrypted data [column 5, lines 1-42].

As to claims 13 and 16, Grawrock discloses a method, comprising:

obtaining a password [column 5, lines 1-42];

sending encrypted data and a hint corresponding to the encrypted data from a server to a client [column 5, lines 1-42]; and

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performing a hashing algorithm on the password and the hint at the client to generate a key for decrypting the encrypted data [column 6 line 52 to column 7

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line 27].

As to claim 14, Grawrock discloses that the step of performing a hashing algorithm includes hashing the password [column 6 line 52 to column 7 line 27].

As to claim 15, Grawrock discloses a system, comprising:

a user interface for obtaining a password [column 5, lines 1-42];

a communications module for sending encrypted data and a hint corresponding to the encrypted data from a server to a client [column 5, lines 1-42]; and

a key generator for performing a hashing algorithm on the password and the hint at the client to generate a key for decrypting the encrypted data [column 6 line 52 to column 7 line 27].

As to claim 17, Grawrock discloses that the system includes code stored on a computer-readable storage medium [column 2, lines 47-53].

As to claim 18, Grawrock suggests that the system includes code embodied in a carrier wave [column 2, lines 47-53].

As to claim 19, Grawrock discloses a method, comprising:

receiving identification of encrypted data [column 2, lines 54-62];

sending a decryption downloadable for deriving a key from a password and a hint to a client [column 5, lines 1-42];

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sending a hint corresponding to the encrypted data to the client [column 5,

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lines 1-42]; and

deriving the key by hashing at least one of the hint and the password

[column 6 line 52 to column 7 line 27].

9. Claims 3, 7 and 20-30 are rejected under 35 U.S.C. 102(e) as being anticipated by

Challener et al U.S. Patent No. 6,470,454 B1.

As to claim 3, Challener et al discloses a method, comprising:

obtaining a hint [column 5, lines 28-50];

obtaining a password [column 5, lines 28-50];

performing a hashing algorithm on the hint and the password to generate a

key, wherein the step of performing a hashing algorithm includes hashing the

password to derive a first secret [column 5, lines 51-58], hashing the first secret to

derive a second secret, hashing the hint and the first secret to generate an

intermediate index, and hashing the intermediate index and the second secret to

generate the key [column 5 line 59 to column 6 line 33];

encrypting data using the key [column 5 line 59 to column 6 line 33]; and

sending the encrypted data to a server for storage [column 5 line 59 to

column 6 line 33].

As to claim 7, Challener et al discloses a system, comprising:

a user interface for obtaining a password; [column 5, lines 28-50]

a key generator coupled to the user interface for performing a hashing

algorithm on a hint and the password to generate a key wherein the key generator

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hashes the password to derive a first secret [column 5, lines 51-58], hashes the first secret to derive a second secret, hashes the hint and the first secret to generate an intermediate index, and hashes the intermediate index and the second secret to generate the key [column 5 line 59 to column 6 line 33];

an encryption engine coupled to the key generator for encrypting data using the key [column 5 line 59 to column 6 line 33]; and

a communications module coupled to the engine for sending the encrypted data to a server for storage [column 5 line 59 to column 6 line 33].

As to claim 20, Challener et al discloses a method, comprising:

obtaining a password [column 5, lines 28-50];

deriving a first secret from the password [column 5, lines 28-50];

receiving a hint corresponding to data to be decrypted from a server [column 5, lines 28-50];

deriving an intermediate index from the first secret and the hint [column 5 line 59 to column 6 line 33]; and

sending the intermediate index to the server [column 5 line 59 to column 6 line 33].

As to claim 21, Challener et al discloses a client-based method, comprising:

obtaining a password [column 5, lines 28-50];

deriving a first secret from the password [column 5, lines 28-50];

receiving a hint corresponding to data to be decrypted from a server [column 5, lines 28-50];

deriving an intermediate index from the first secret and the hint [column 5 line 59 to column 6 line 33]; and

sending the intermediate index to the server [column 5 line 59 to column 6 line 33].

As to claim 22, Challener et al discloses that deriving the first secret includes hashing the password [column 5, lines 28-50].

As to claim 23, Challener et al discloses that deriving an intermediate index includes hashing the first secret and the hint [column 5 line 59 to column 6 line 33].

As to claim 24, Challener et al discloses a system, comprising:

a user interface for obtaining a password [column 5, lines 28-50];

an index generator coupled to the user interface for generating an intermediate index from a hint received from a server and a secret derived from the password [column 5 line 59 to column 6 line 33]; and

a communications engine coupled to the index generator for sending the intermediate index to the server [column 5 line 59 to column 6 line 33].

As to claim 25, Challener et al discloses that the index generator generate the intermediate index by hashing the hint and the secret [column 5 line 59 to column 6 line 33].

As to claim 26, Challener et al discloses a system, comprising:

means for obtaining a password [column 5, lines 28-50];

means for deriving a first secret from the password [column 5, lines 28-50];

means for receiving a hint corresponding to data to be decrypted from a server [column 5, lines 28-50];

means for deriving an intermediate index from the first secret and the hint [column 5 line 59 to column 6 line 33]; and

means for sending the intermediate index to the server [column 5 line 59 to column 6 line 33].

As to claim 27, Challener et al discloses that the system includes code stored on a computer-readable storage medium [column 3, lines 22-35].

As to claim 28, Challener et al suggests that the system includes code embodied in a carrier wave [column 3, lines 22-35].

As to claim 29, Challener et al discloses a server-based method, comprising:

receiving an indication of encrypted data to be decrypted [column 6, lines 21-57];

transmitting to a client a hint corresponding to the indication [column 6, lines 21-57], and a decryption downloadable for deriving an intermediate index from a password and the hint [column 6, lines 21-57];

receiving the intermediate index from the client [column 5 line 59 to column 6 line 33];

deriving a decryption key from a second secret corresponding to the user and the intermediate index [column 5 line 59 to column 6 line 33].

As to claim 30, Challener et al discloses a system, comprising:

a second secret corresponding to a user [column 6, lines 21-57];

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a decryption downloadable for generating an intermediate index from a password and a hint [column 6, lines 21-57];

a web server for receiving an indication of encrypted data to be decrypted [column 5 line 59 to column 6 line 33], for transmitting the decryption downloadable and a hint corresponding to the indication to a client [column 5 line 59 to column 6 line 33], and for receiving an intermediate index from the client [figure 6]; and

a server-resident module for deriving a key for decrypting the encrypted data from the second secret and the intermediate index [column 5 line 59 to column 6 line 33].

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Conclusion

10. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Aravind K. Moorthy whose telephone number is 571-272-3793.

The examiner can normally be reached on Monday-Friday, 8:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ayaz R. Sheikh can be reached on 571-272-3795. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Aravind K Moorthy AN May 5, 2005

AYAZ SHEIKH
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

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